

# MARINE BIOLOGY

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Guidelines for Project Proficiency Award

Date  
Leaders  
Initials

### Beginning

#### HEAD:

1. Identify 4 tidal zones and explain differences of each. (characteristics) \_\_\_\_\_
2. Define indicator species and identify two for each tidal zone. \_\_\_\_\_
3. Identify/discuss these terms: high tide, spring tide, low tide, neap tide, continental shelf, continental slope. \_\_\_\_\_
4. Explain/diagram tides and the cause of them. \_\_\_\_\_
5. Understand the differences between these habitats: rocky, sandy, piling, and estuary. \_\_\_\_\_

#### HEART:

1. Attend a low tide field trip. \_\_\_\_\_
2. Understand and discuss grey whale migration. \_\_\_\_\_
3. Identify and give 2 characteristics of 3 other species of whales. \_\_\_\_\_
4. Explain and give examples of why oceans are important to man. \_\_\_\_\_

#### HANDS:

1. Discuss how organisms have adapted to survive repeated exposure to the air and sun. \_\_\_\_\_
2. In a tidal pool, locate and identify 5 common inhabitants. \_\_\_\_\_
3. Understand causes and explain the differences in salinity of tidal pools, open ocean, estuary. \_\_\_\_\_
4. Be able to read and understand a tide table book. \_\_\_\_\_

#### HEALTH:

1. Identify "red tide", discuss what causes it, and explain its effects on man. \_\_\_\_\_
2. Discuss how oceans can become polluted, give 2 examples, and explain how ocean pollution affects all life. \_\_\_\_\_
3. Define "feeding frenzy." \_\_\_\_\_
4. Give a demonstration at County Presentation Day. \_\_\_\_\_

Leaders Signature: \_\_\_\_\_

Date: \_\_\_\_\_